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NOTICE OF ALLOWANCE AND FEE(S) DUE

21171 7590 06/03/2008

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. EXAMINER
BOAKYE, ALEXANDER O

ART UNIT PAPER NUMBER

2616 DATE MAILED: 06/03/2008

1201 NEW YORK AVENUE, N.W WASHINGTON, DC 20005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,607	03/25/2004	Hak-goo Lee	1793.1175	5024

TITLE OF INVENTION: METHOD OF ADVERTISING DNS SERVER ADDRESS AND ROUTING METHOD THEREBY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	ders and notification of specifying a new corre	maintenance fees v spondence address	vill be and/or	mailed to the current (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for
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21171	7590 06/03	/2008					of Mailing or Trans	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W.			I b Sta ade trai	I hereby certify that this Fee(s) Transmittal is being deposited with the Unite States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FEE address above, or being facsimil transmitted to the USPTO (571) 273-2885, on the date indicated below.				
WASHINGTON	, DC 20005							(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	₹	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/808,607	03/25/2004			Hak-goo Lee			1793.1175	5024
TITLE OF INVENTION								
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	09/03/2008
EXAM	INER		ART UNIT	CLASS-SUBCLASS				
BOAKYE, AL	EXANDER O		2616	382-100000				
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	from anyone other than Office.	the applicant; a reg	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
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This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT rden, sl D NOT	11. The information 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	he pub minute mmen Trader S. SEN	tic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depo D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/808,607	03/25/2004	Hak-goo Lee	1793.1175	5024
21171 75	90 06/03/2008		EXAM	UNER
STAAS & HALSEY LLP		BOAKYE, ALEXANDER O		
SUITE 700			ART UNIT	PAPER NUMBER
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			2616 DATE MAILED: 06/03/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 790 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 790 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)		
10/808,607	LEE ET AL.		
Examiner	Art Unit		
ALEXANDER BOAKYE	2616		

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. A This communication is responsive to 04/08/2008.

2. The allowed claim(s) is/are 1-5.14.6-13.15.19-21; renumbered as 1-18 respectively.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 - a) All b) Some* c) None of the:
 - 1. \square Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

Application/Control Number: 10/808,607

Art Unit: 2616

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Claims 1-15,19-21 are considered allowable since when reading the claims in light of the specification none of the references of record alone or in combination disclose or suggest the combinations of limitations specified in the independent claims. As to claims 1-9,14, the prior art of record does not teach advertising by the requesting router having received the reply, a router advertisement message containing the address of the domain name service server to a subnet to which the requesting router having received the reply belongs, thereby searching a location of the domain name service server on the network using the predetermined dynamic routing protocol. As to claims 10-11, the prior art of record does not teach, wherein all of the routers within the autonomous system transmit router advertisement (RA) messages including the link state information of the DNS server to predetermined hosts which ask for a location of the DNS server, thereby automatically setting an address of the DNS server on the predetermined hosts.

As to claims 12, the prior art of record does not teach advertising by the requesting router having received the reply, a router advertisement message containing the address of the domain name service server to a subnet to which the requesting router having received the reply belongs, thereby searching a location of the domain

Application/Control Number: 10/808,607

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name service server on the network using the predetermined dynamic routing protocol. As to claim 13, the prior art of record does not teach , wherein all of the routers within the autonomous system transmit router advertisement (IRA) messages including the link state information of the DNS server to predetermined hosts which ask for a location of the DNS server, thereby automatically setting an address of the DNS server on the predetermined hosts.

As to claim 15, the prior art of record does not teach the server side router transmitting a link state advertisement (LSA) including a location of the DNS server to all routers within an autonomous system to which the DNS server side router belongs and replying to a request for a DNS address from a requesting router, wherein the requesting router, having received the reply, advertises a router advertisement (RA) message containing the LSA to a subnet in which the requesting router belongs. As to claims 19, the prior art of record does not teach transmitting the link state information, which indicates the existence of the domain name service server in the router subnet and stored in the link state advertisement, to all routers within an autonomous system to which the router belongs, through a flooding procedure of the predetermined dynamic routing protocol, receiving a request from a requesting router to provide an address of the domain name service server, and replying to the requesting router with the address of the domain name service server in the router subnet.

As to claims 20-21, the prior art of record does not teach each other router transmitting a DNS request message to the DNS server side router to provide an address of the DNS server existing in the DNS server side router subnet, in response to the DNS server side router link state Application/Control Number: 10/808,607

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advertisement with the set DNS flag; transmitting a DNS reply message by the DNS server side router including the DNS server address to each other router, in response to the DNS request message; and each other router receiving the DNS reply message, advertising, according to each other router node discovery process, the DNS server address to nodes in respective subnets, thereby automatically setting the DNS server address in the nodes. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The Fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or PUBLIC PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Any inquiry of Art Unit: 2616

a general nature or relating to the status of this application or proceeding should be directed to the Electronic Business Center (EBC) numbers at 866-217-9197 and 703-305-3028.

/ALEXANDER BOAKYE/

Examiner, Art Unit 2616

05/24/2008

/Chi H Pham/

Supervisory Patent Examiner, Art Unit 2616

5/27/08